

What is Claimed is:

Sub-a1
1. A photo-voltaic apparatus comprising:
a photo-voltaic module having a plurality of photo-voltaic cells; and
an inverter for converting a direct current output generated from said photo-voltaic cells into an alternating current and outputting the alternating current,
said inverter being mounted on a surface opposite to the light receiving surface of said photo-voltaic module with a clearance provided therebetween.

2. The photo-voltaic apparatus according to claim 1, wherein

said photo-voltaic module comprises a photo-voltaic section having a plurality of photo-voltaic cells in its inner part and a frame for holding the photo-voltaic section.

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3. The photo-voltaic apparatus according to claim 2, further comprising

a terminal box provided on a surface opposite to the light receiving surface of said photo-voltaic module and outputting power generated from the photo-voltaic section,

a first type connector provided on the output side of the terminal box, and

a second type connector provided in said inverter and engaged with said first type connector,

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the inverter being supported on the photo-voltaic section by engagement of both the connectors.

4. The photo-voltaic apparatus according to claim 3, wherein

said inverter is provided with a first type output connector.

5. The photo-voltaic apparatus according to claim 2, wherein

said inverter is mounted on a part of said frame.

6. The photo-voltaic apparatus according to claim 5, wherein

a frame positioned outside of a position to which said inverter is mounted is provided with a slit for air inflow.

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7. The photo-voltaic apparatus according to claim 2, wherein

a heat insulating plate is further mounted on said frame on the opposite side of the light receiving surface of the photo-voltaic module, and

said inverter unit is mounted on said heat insulating plate.

8. The photo-voltaic apparatus according to claim 1, wherein

an inverter unit is mounted on a surface opposite to the light receiving surface of said photo-voltaic module through legs.

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9. A photo-voltaic apparatus comprising:
a plurality of photo-voltaic modules each having a plurality of photo-voltaic cells; and
inverters each mounted on the photo-voltaic module and converting a direct current output generated from said photo-voltaic cells into an alternating current and outputting the alternating current,
the photo-voltaic modules being so located that their respective parts are overlapped with each other,
an air flow path for cooling said inverter being provided between said photo-voltaic modules.

10. The photo-voltaic apparatus according to claim 9, wherein

said photo-voltaic module comprises a photo-voltaic section having a plurality of photo-voltaic cells in its inner part and a frame for holding the photo-voltaic section.

11. The photo-voltaic apparatus according to claim 10, wherein

said inverter is mounted on a frame in one of superimposed portions of said photo-voltaic module,

a heat radiating fin in the inverter is arranged on the light receiving surface, and

a containing section for containing said heat radiating fin of the other photo-voltaic module is provided in the

other superimposed portion.

12. The photo-voltaic apparatus according to claim 11,
wherein

a shading cover is provided on said heat radiating fin.

13. The photo-voltaic apparatus according to claim 10,
wherein

a heat radiating fin for cooling the photo-voltaic
module is further provided on a surface opposite to the
light receiving surface of said photo-voltaic module.

14. The photo-voltaic apparatus according to claim 13,
wherein

said heat radiating fin is provided in a frame for
holding the photo-voltaic section.

15. The photo-voltaic apparatus according to claim 14,
wherein

an inverter is mounted on said heat radiating fin.

16. The photo-voltaic apparatus according to claim 15,
wherein

a planar section is formed on a surface, which is in
contact with the inverter, of said heat radiating fin,

an engaging section engaged with a part of said planar
section is provided in said inverter, and

said inverter is mounted by engagement of the engaging
section and the planar section.

17. The photo-voltaic apparatus according to claim 10,

wherein

a connecting hole provided with an insulating bushing is formed in said frame, to make electrical connection between the photo-voltaic section and the inverter through the connecting hole.

18. The photo-voltaic apparatus according to claim 9, wherein

a superimposed section on which said inverter unit is put is formed in the superimposed portion of said photo-voltaic module.

19. The photo-voltaic apparatus according to claim 18, wherein

said superimposed section is provided with projections and recesses.

20. A photo-voltaic apparatus comprising:

a plurality of photo-voltaic modules each having a plurality of photo-voltaic cells;

inverters each located between the photo-voltaic modules and converting a direct current output generated from said photo-voltaic cells into an alternating current and outputting the alternating current; and

an air flow path provided in said photo-voltaic module and cooling said inverter.